<u>Lesson Six: Critical Thinking</u> <u>Observe – Measure - Predict</u>

Key Concept: The importance of this lesson is sharpen skills for observation, investigation and prediction.

Activity:

Use a Solar Panel and Fuel Cell Car Kit

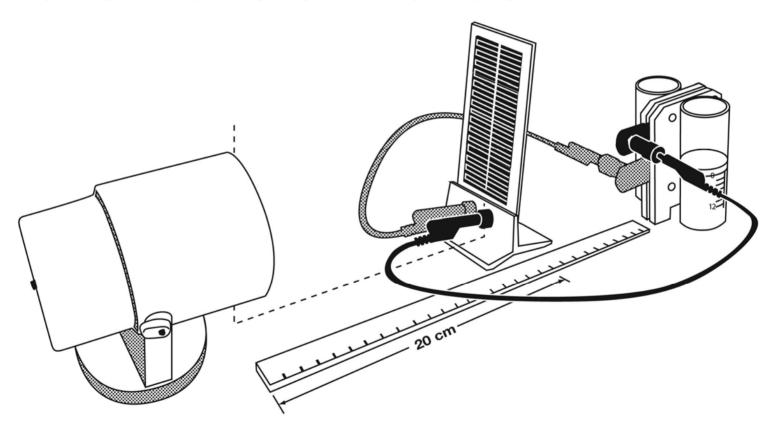
Important words:

Observation

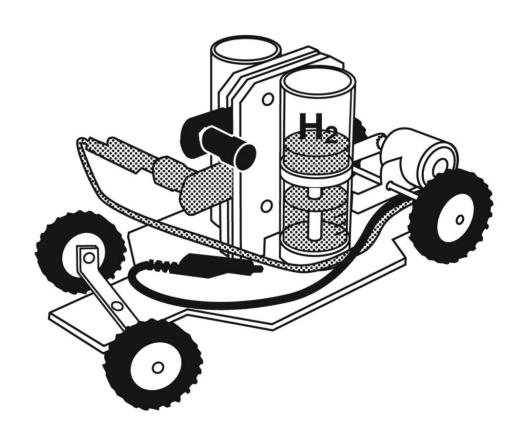
Investigation

Prediction

Step One: Let's make some fuel!

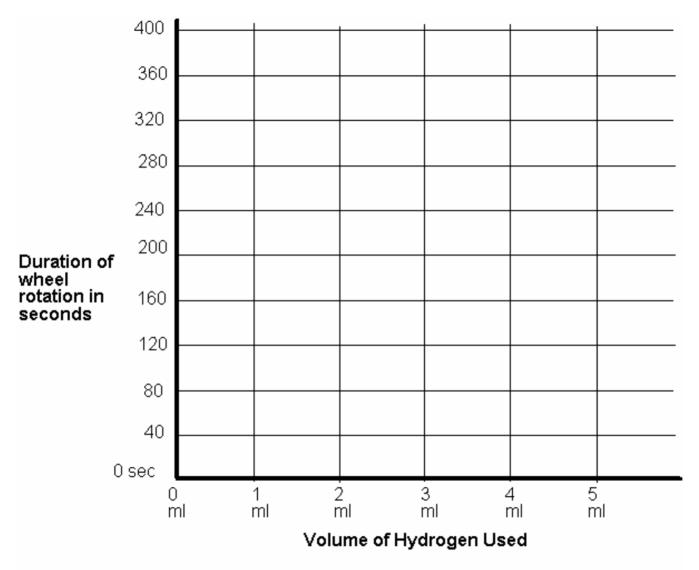


Step two: Ready – Set – Go!



Step three: Let's Measure

	Trial 1		Trial 2		Trial 3		
	time	elapsed seconds since 12 ml level	time	elapsed seconds Since 12 ml level	time	elapsed seconds since 12 ml level	Elapsed seconds of car travel (average of trials)
Time when 4 ml H ₂ left							
Time when car stops, 4 ml $\rm H_2$ used							



Duration of Rotation per given volume of Hydrogen

Some Questions:

Why do we have to know what the level of hydrogen is before we start?

What do you notice about the bubble of hydrogen and oxygen?

What was your guess (hypothesis) before we started the experiment?

How far did your car travel on 4ml of hydrogen?

































Critical Thinking

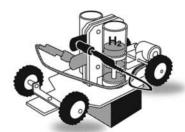
Observe – Record Measure – Record Compare and Predict



Future Fuel Cell Scientist of America

For Completing Lesson Six: Critical Thinking

Mentor:







End of Lesson Six